

SUPER HARD ALLOY

Patent number: JP7173568
Publication date: 1995-07-11
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Classification:
- international: C22C29/02
- european:
Application number: JP19900414570 19901226
Priority number(s): JP19900414570 19901226

Abstract of JP7173568

PURPOSE:To obtain a super hard alloy excellent in chipping resistance by using each a specified wt.% of a hard phase, a bonding phase and a specified element dispersed or allowed to enter into solid soln. in the bonding phase. **CONSTITUTION:**The compsn. of this super hard alloy excellent in heat cracking resistance consists of 70-95wt.% hard phase consisting of titanium carbonitride and carbide, nitride or carbonitride of a group IVa, Va or VIa element, 5-30wt.% bonding phase made of an iron group metal, 1-5wt.% group IVa, Va or VIa element dispersed or allowed to enter into solid soln. in the bonding phase and inevitable impurities. When this super hard alloy is used as a substrate and coated with the carbonitride of Ti, the nitride of Ti or a compd. of Al, etc., to form a super hard alloy, the application range of a tough tool can be extended.

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